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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA,
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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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28 April 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITIONS FOR SELECTIVELY ENRICHING MICROBES

(57) Abstract: The present invention provides methods and materials to selectively enrich target microbes in a sample.

WO 2004/111180 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40806

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/04; C12N 1/00, 1/20, 1/36, 1/38, 13/00; G01N 33/536, 33/539, 33/566
US CL : 435/34, 173.4, 243, 244, 245, 253.6; 436/501, 536, 539

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/34, 173.4, 243, 244, 245, 253.6; 436/501, 536, 539

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Please See Continuation Sheet

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | US 6,136,554 A (BOCHNER) 24 October 2000 (24.10.2000). Entire document, especially Abstract., Tables 1-4, Column 19, Lines 13 to Column 22, Line 58; Column 24, Line 8 to Column 27, Line 50. | 1-61 |
| Y | US 6,379,918 B1 (FELDSINE et al.) 30 April 2002 (30.04.2002). Entire document, especially abstract; Column 3, Line 53 to Column 5, Line 39 and Claims 1-25. | 1-61 |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

01 February 2005 (01.02.2005)

Date of mailing of the international search report

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Name and mailing address of the ISA/US

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Continuation of B. FIELDS SEARCHED Item 2:

EATON ET AL., 1995, STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 19TH EDITION. AMERICAN WATER WORKS ASSOCIATION/ AMERICAN PUBLIC HEALTH ASSOCIATION.

Continuation of B. FIELDS SEARCHED Item 3:

DWPI, EPAB, JPAB, PGPB, USOC, USPT, ADISNEWS, AGRICOLA, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, DISSABS, EMBAL, EMBASE, ESBIODBASE, FEDRIP, FROSTI, FSTA, HCAPLUS, HEALSAFE, IFIPAT, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NTIS, PROMPT, RDISCLOSURE, REGISTRY, SCISEARCH, TOXCENTER, USPATFULL, WPIDS.

Search Terms:

Escherichia coli, enteropathogenic, toxigenic, pathogenic, enterohemorrhagic, hemorrhagic, enterotoxigenic, bacteria, acidic, selective, culture media, nutrients, pH 1-6, 2-4, 1-4, sorbitol or "RN-50-70-4", selenite or "RN-15698-85-8", tellurite or "RN-37368-05-2", pH or hydrogen ion concentration, identif?, isolat?, identif?, recogniz\$/?, SOB medium, LB, BHI, brain heart infusion, trypsin broth or TSB, NZCYM, RIA or radioimmunoassay, ELISA, antibody assay.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 03/39987

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | <p>US 2001/022964 A1 (SH.S.LEUNG ET AL.) 20 September 2001 (2001-09-20) claims examples tables paragraphs '0026!, '0031!, '0033! - '0054!, '0088! - '0125! -----</p> | 1-45 |
| Y | <p>WO 00/42992 A (LAVIPHARM) 27 July 2000 (2000-07-27) claims examples page 10, line 7 - page 11, line 31 page 14, line 12 - page 15, line 12 -----</p> | 1-45 |

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